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Notice of Allowability

Application No.

10/656,451

Applicant(s)

BAUM ET AL.

Examiner

Art Unit

N. Drew Richards

2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 9/5/03.
2. ☒ The allowed claim(s) is/are 1-4,6-17 and 19-29.
3. ☒ The drawings filed on 05 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 9/5/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Tom Thomas
TOM THOMAS
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dan Swayze on 2/24/05.

The application has been amended as follows:

In the claims:

- Claim 1 line 7, delete "a higher amount of"
- Claim 3 line 17, delete "a higher amount of"
- Cancel claim 5
- Claim 6 line 1, delete "claim 5" and replace therewith --claim 3--
- Claim 7 line 1, delete "claim 5" and replace therewith --claim 3--
- Claim 9 line 1, delete "claim 5" and replace therewith --claim 3--
- Claim 17 line 8, delete "a higher amount of"
- Cancel claim 18
- Claim 19 line 1, delete "claim 18" and replace therewith --claim 17--
- Claim 26 line 1, delete "an integrated circuit" and replace therewith --A method of manufacturing an integrated circuit--
- Claim 26 line 2, delete "means for"
- Claim 26 line 3, delete "means for"

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- Claim 26 line 5, delete "means for"
- Claim 27 line 1, delete "integrated circuit" and replace therewith --method--
- Claim 27 line 1, after "including" insert --forming--
- Claim 28 line 1, delete "integrated circuit" and replace therewith --method--

2. The following is an examiner's statement of reasons for allowance: Prior art of record fails to teach, disclose, or suggest, either alone or in combination, the integrated circuit as claimed in claims 1 and 3, the method of reducing peak hot spot temperatures as claimed in claim 17, the method of manufacturing an integrated circuit as claimed in claim 26, or the method of reducing harmonic distortion as claimed in claim 29.

Specifically, the prior art of record fails to teach a structure or method of forming or using the structure, including a p-channel transistor composed of a first group of sections, an n-channel transistor composed of a second group of sections, and the sections of the first group being alternately located with respect to the sections of the second group so as to form a generally checkerboard pattern.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Miyaoka et al. (U.S. Patent No. 5220187), Aldrich (U.S. Patent

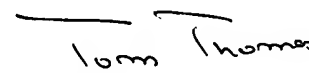
No. 6566720 B2), Possley (US 2002/0070391 A1), Anderson et al. (U.S. Patent No. 5459340), Kitagawa et al. (U.S. Patent No. 5489860).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Drew Richards whose telephone number is (571) 272-1736. The examiner can normally be reached on Monday-Friday 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


NDR


TOM THOMAS
SUPERVISORY PATENT EXAMINER